

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 06017167
PUBLICATION DATE : 25-01-94

APPLICATION DATE : 30-06-92
APPLICATION NUMBER : 04194612

APPLICANT : ISHIFUKU METAL IND CO LTD;

INVENTOR : KOYAMA KAZUAKI;

INT.CL. : C22C 5/06

TITLE : HIGH HARDNESS AND HIGH CORROSION RESISTANT SILVER ALLOY

ABSTRACT : PURPOSE: To improve the castability and workability of a silver alloy without deteriorating excellent physical and chemical characteristics of silver, furthermore to improve its hardness, to increase its durability in its use, to widen its elastic utilizing range and to expand its characteristic using function.

CONSTITUTION: The silver alloy containing 3.5 to 5.5% copper, 0.5 to 3.0% tin and 0.5 to 3.0% germanium by weight ratio and the balance silver, having high hardness and high corrosion resistance are obtained. In this way, the silver alloy provided with a good hue of silver white and excellent workability, good melt castability and excellent hardness while keeping working ability, and preventing breaking, failure and damage in the process of working and using. The utilizability as a cast material is increased and the expansion of its utilizing range for jewelry, ornaments, industrial arts, electric and electronic materials or the like are attained.

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